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FAX TRANSMISSION			
TO:	Louise Corrigan		
Ph #		Mail Code:	
FM:	Jack Kelly	Ph #	215-5978309 Date: J. 14-9
# of Pgs:	5	Confirm:	Time: 9:21 AM

Louise 5/13/91

Revised 5/9/91 memo.

AND Figure 4 copy w/Legend.

I sent complete sets to

All cc's.

Jack

AR304712

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
841 Chestnut Building
Philadelphia, Pennsylvania 19107

SUBJECT: Additional Hydrogeologic Work at
William Dick Lagoons

DATE: 5-9-91

FROM: ^{KB}
Kathy Davies, Hydro

TO: Jack Kelly, RPM

I have reviewed the proposed work presented by Geraghty and Miller per letter to you of December 12, 1990 and have the following comments:

Task

2. It is not clear if this proposal will be followed by a work-plan specifying the details of the tasks to be completed. For example, it is proposed that the deep wells will be drilled and packer testing will be conducted every 50 feet (approximately). Will the packer testing be concurrent with drilling or will the entire depth of the well be drilled first? What will be the criteria for a particular zone to be packer tested: How many volumes of the packed interval will be removed prior to sampling? What will be the minimum/maximum screen length intervals? Drilling must be terminated if a highly contaminated zone is encountered prior to reaching the anticipated final well depth. Double casing must be considered before the fracture zone is encountered.
3. Ground water samples should be analyzed for basic water quality parameters (i.e., common cations/anions) to better characterize potential contaminant pathways and source areas. A second round of target analyses is expected, based on previously documented seasonal fluctuations.
4. Because of the extremely complex hydrogeologic regime at the site, it is expected that several pump tests will be necessary to evaluate the aquifer's response to pumping and to determine interconnectivity among monitoring wells, residential wells and areas of the aquifer. Groundwater samples should be taken at logarithmic intervals during the pumping tests.

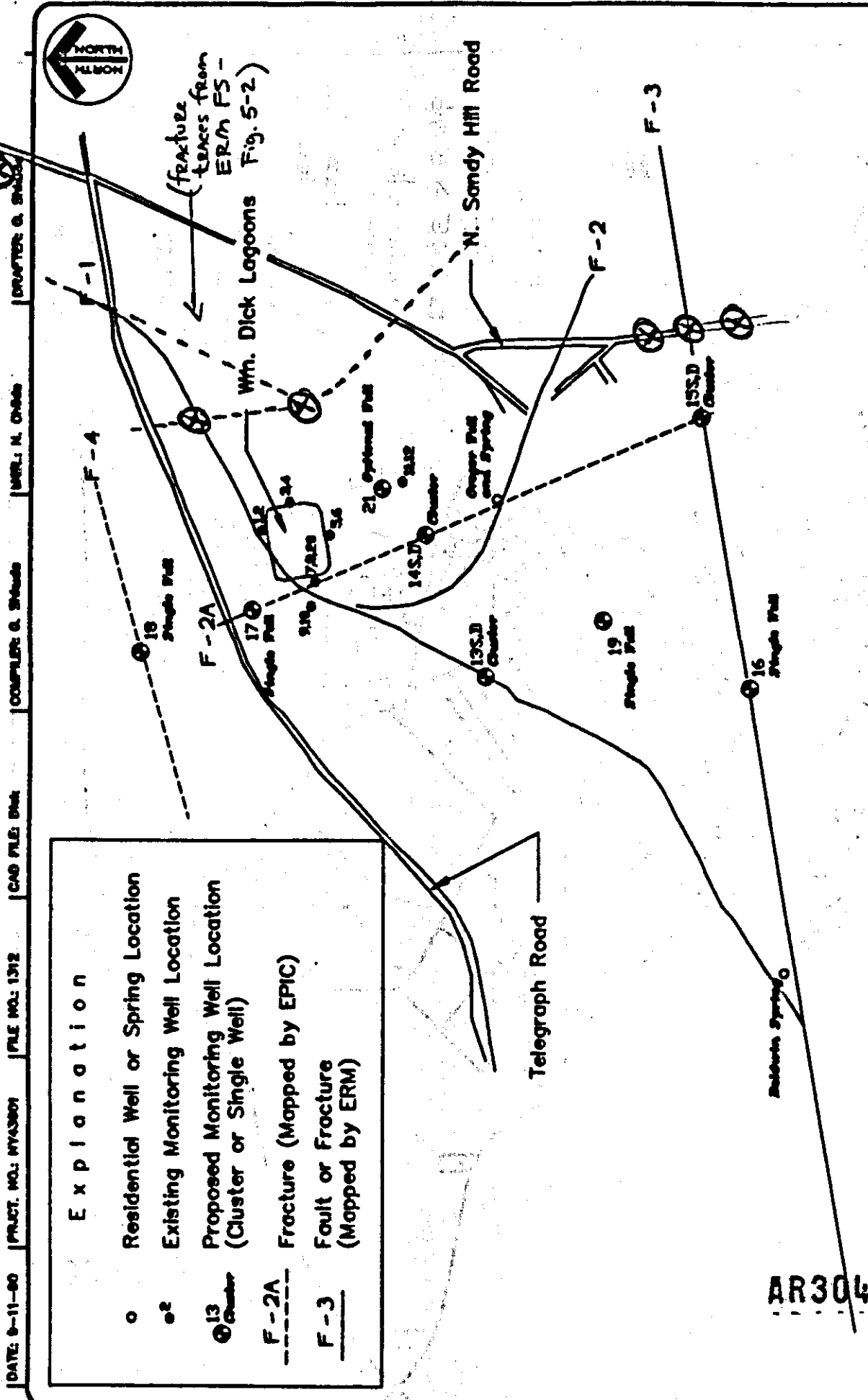
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Figure 1

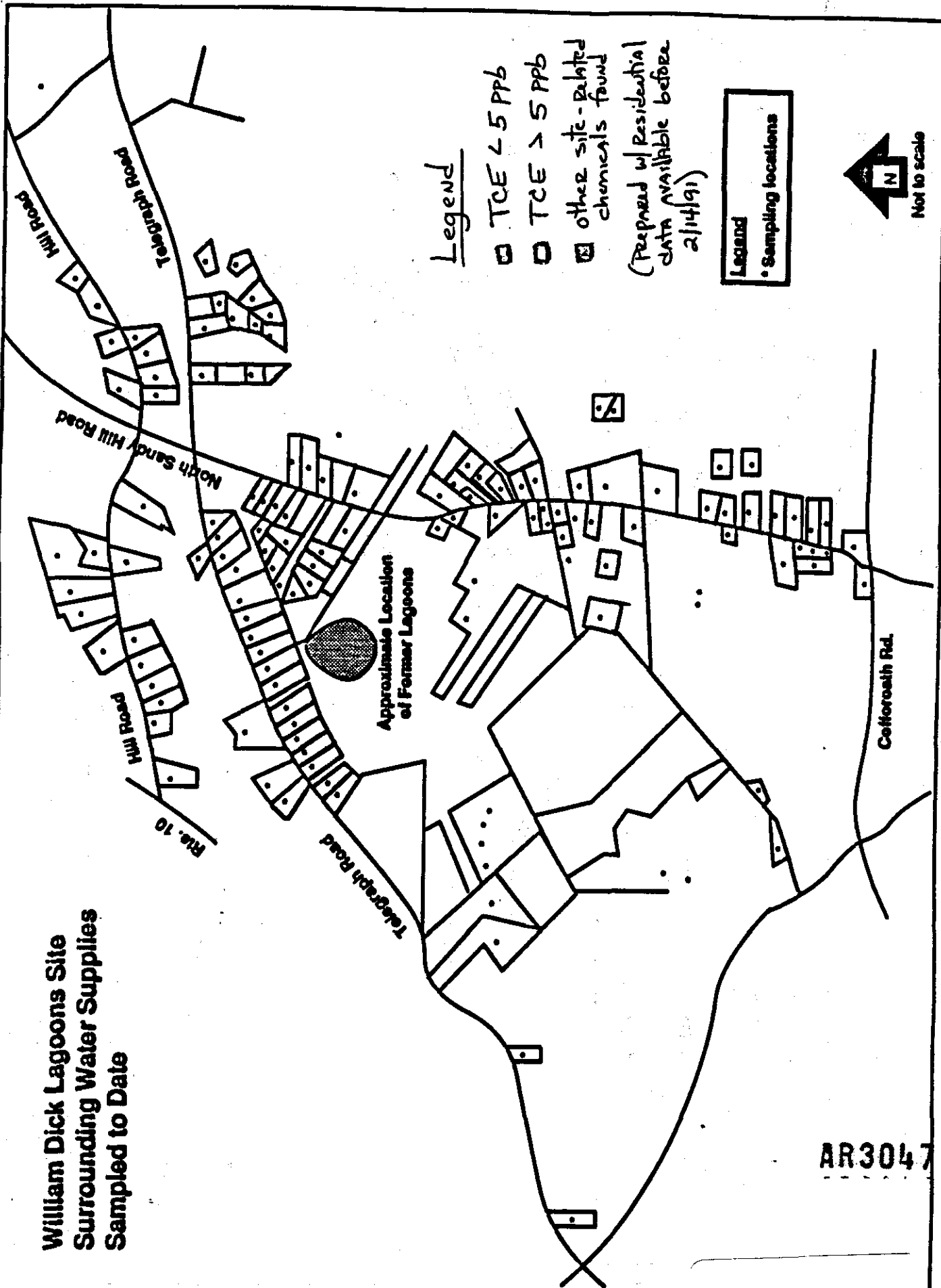
The approximate well locations proposed by G&M seem to be appropriate as an initial step in further characterizing the site. If you are interested in gaining more insight to the interconnectivity of the site and contaminated residential wells, then I think we need to look at available well construction information for the residential wells and add a few additional monitoring wells between the lagoons and the home wells. I have sketched pertinent geologic features, such as the fault and fracture traces, as well as a few possible new well locations on the attached map.

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Added wells per K. Davics 5/9/91



William Dick Lagoons Site Surrounding Water Supplies Sampled to Date



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